



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶ : C12N 15/00, 15/12, 5/12, 1/21, C07K 14/47, 16/18, C12Q 1/68, G01N 33/577, A61K 39/395, A01K 67/027	A1	(11) International Publication Number: WO 98/45420 (43) International Publication Date: 15 October 1998 (15.10.98)
--	-----------	--

(21) International Application Number: PCT/CA98/00346
(22) International Filing Date: 9 April 1998 (09.04.98)

(30) Priority Data:
60/041,836 10 April 1997 (10.04.97) US

(71) Applicant (for all designated States except US): DIAGNOCURE INC. [CA/CA]; 6th floor, 2050 René-Lévesque Boulevard West, Ste-Foy, Quebec G1V 2K8 (CA).

(72) Inventor; and

(75) Inventor/Applicant (for US only): BUSSEMAKERS, Marion, J., G. [NL/NL]; St. Geertruidestraat 27, NL-6521 KG Nijmegen (NL).

(74) Agents: DUBUC, Jean, H. et al.; Goudreau Gage Dubuc & Martineau Walker, The Stock Exchange Tower, Suite 3400, 800 Place Victoria, P.O. Box 242, Montreal, Quebec H4Z 1E9 (CA).

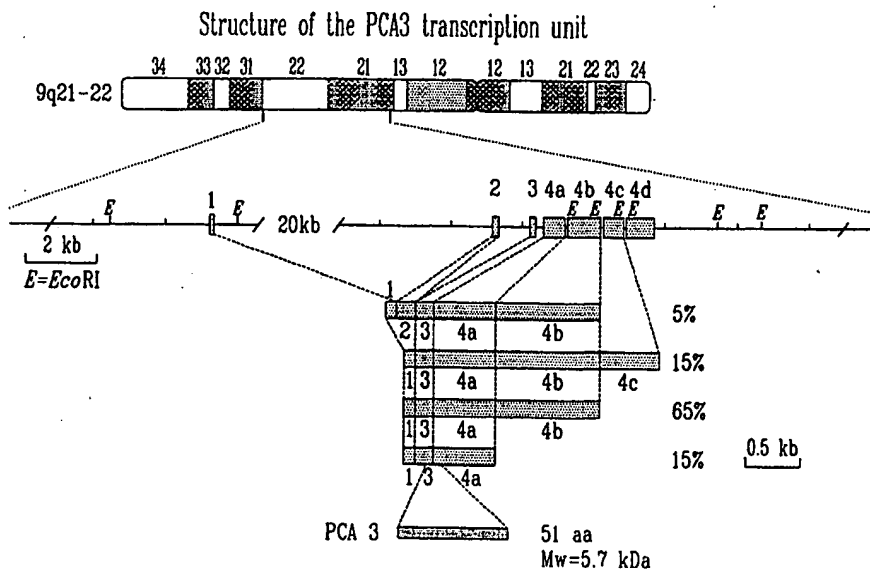
(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG).

Published

With international search report.

Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.

(54) Title: PCA3, PCA3 GENES, AND METHODS OF USE

**(57) Abstract**

The present invention relates, in general, to a prostate-specific antigen, PCA3. In particular, the present invention relates to nucleic acid molecules coding for the PCA3 protein; purified PCA3 proteins and polypeptides; recombinant nucleic acid molecules; cells containing the recombinant nucleic acid molecules; antibodies having binding affinity specifically to PCA3 proteins and polypeptides; hybridomas containing the antibodies; nucleic acid probes for the detection of nucleic acids encoding PCA3 proteins; a method of detecting nucleic acids encoding PCA3 proteins or polypeptides in a sample; kits containing nucleic acid probes or antibodies; bioassays using the nucleic acid sequence, protein or antibodies of this invention to diagnose, assess, or prognose a mammal afflicted with prostate cancer; therapeutic uses; and methods of preventing prostate cancer in an animal.